

ABSTRACT OF THE DISCLOSURE

A process for inhibiting a polymerization of an easily polymerizable compound purification system is disclosed.

According to the present invention, the polymerization of the easily polymerizable compound such as (meth)acrylic acid and (meth)acrylate flowed into a vacuum section can be inhibited by contacting a liquid containing a polymerization inhibitor with the compound directly in the vacuum section.

When the vacuum section includes a gas and liquid contact chamber (usually a condenser), the liquid containing a polymerization inhibitor may be supplied to the chamber. When the vacuum section includes a liquid ejector and/or a nash pump as a vacuuming device, the liquid containing a polymerization inhibitor may be circulated by the liquid ejector and/or the nash pump for reducing a pressure of a purifying section. Examples of easily polymerizable compounds are (meth)acrylic acid and (meth)acrylates. The process of the invention is capable of inhibiting the polymerization of the easily polymerizable compound such as (meth)acrylic acid and (meth)acrylate in a vacuum section of a purifying system. The system of the invention is suitable for purifying the easily polymerizable compound.